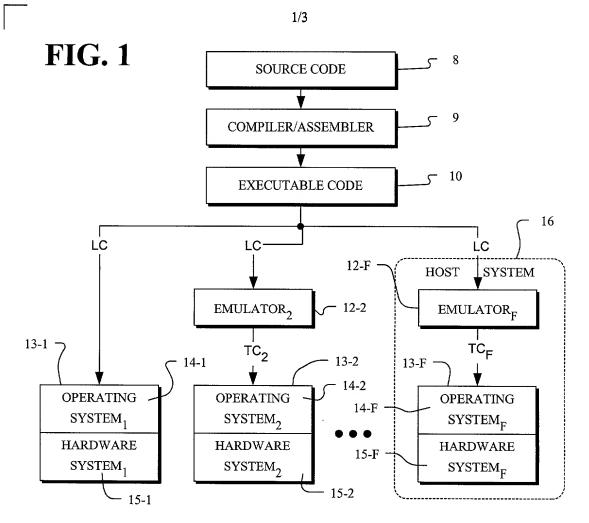
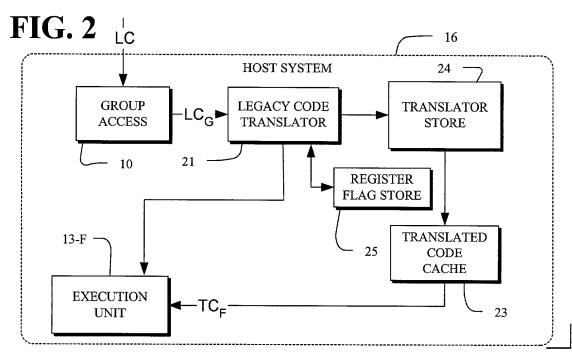
Atty Doc No: AMDH-08155US0 DEL Inventor 1: Ronald Hilton

Title:MEMORY ADDRESS PREDICTION UNDER EMULATION





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FIG. 3

LEGACY CODE (CISC)

100	START	BALR	B1,R0	
102	BASE	LM	R1,R2,DATA1	
106		MVC	DATA1, DATA3	
10C		AH	R1,DATA2	
110		SRA	R1,1	
114		SH	R2,DATA2	
118		AR	R1,R2	
11A		BC	TARGET	
120	DATA1	DC	X'005390BC'	
		DC	X'09C20004'	
128	DATA2	DC	X'0009'	
12A	DATA3	DC	X'800039AF'	

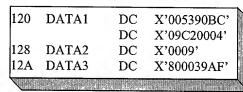


100 **START** BALR B1, R0 102 **BASE** LM R1, R2,DATA1 106 MVC DATA1, DATA3 10C AH R1, DATA2



i .			
BALF	RMOV	B1	BASE
LM	ADD	A 1	B1,DATA1 - BASE
	LD4	R1	[A1]
	ADD	A1	A1,4
	LD4	R2	[A1]
MVC	ADD	A 1	B1,DATA1-BASE
	ADD	A2	B1,DATA3-BASE
•	LD4	T1	[A2]
	ST4	T1	[A1]
AH	ADD	A1	B1,DATA2 -BASE
	LD2	T1	[A1]
	ADD	R 1	R1,T1
	В	XFI	ER_SEQUENTIAL

110	SRA	R1,1	_
114	SH	R2,DATA2	
118	AR	R1,R2	
11A	BC	TARGET	





SRA	SHR	R1	1	
SH	ADD	A 1	B1,DATA2 -BASE	
	LD2	T1	[A1]	
	SUB	R2	R2,T1	
AR	ADD	R1	R1,R2	
BC	ADD	A1	B1,TARGET - BASE	
	В	XFI	ER_BRANCH	

E

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FIG. 4

